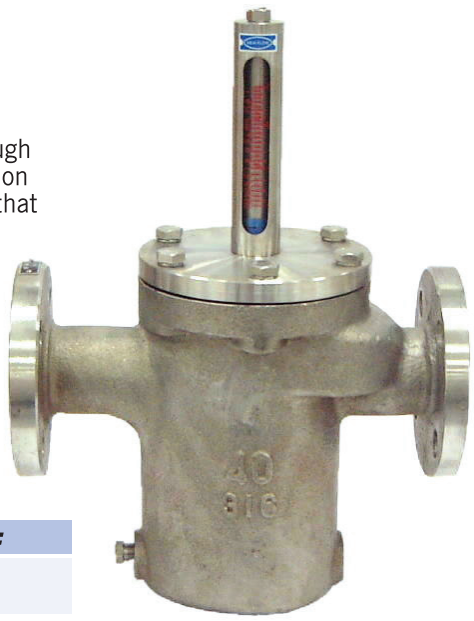
# VARIABLE AREA TYPE FLOW METER (ROTAMETER)

# HB TYPE

## Operation Principle

The variable area flow meter content a float & taper tube. The fulid flow through the taper tube and force up to the float. The flow rate is measured as a function of the area of the opening. This area displayed in indicating ring as the float that is free to move to produce the varying area.



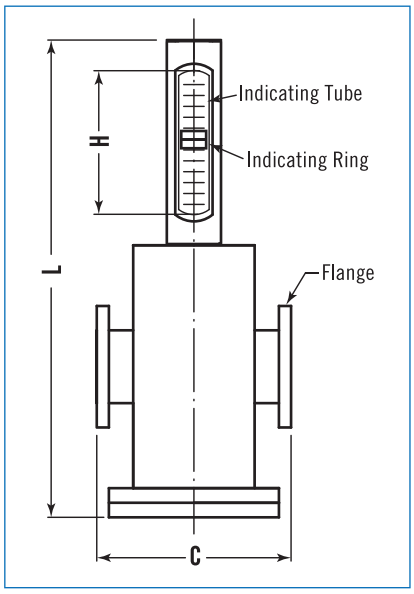
**Approvals:**

## Application

**A. Measuring the flow rate for:**
- Chemical process system
- Water treatment system
- Industrial flow system

**B. Service Condition:**
- Viscosity: ≤100cP
- Max. working temperature: 150°C
- Max. working pressure: 40 kg/cm²

## Dimensions




## Standard Range Table & Dimensions

unit=mm

| Size \ Range | H2O (max.) M³/H | AIR (max.) Nm³/H | DIMENSION L | H | C | Flange |
|---|---|---|---|---|---|---|
| 15A | 0.06 ~ 0.6 | 1 ~ 12 | 250 | 80 | 140 | ½” |
| 20A | 0.12 ~ 1.2 | 2 ~ 20 | 250 | 80 | 140 | ¾” |
| 25A | 0.3 ~ 3 | 5 ~ 50 | 300 | 100 | 160 | 1” |
| 32A | 0.6 ~ 6 | 10 ~ 100 | 300 | 100 | 160 | 1¼” |
| 40A | 1.2 ~ 12 | 20 ~ 200 | 350 | 100 | 200 | 1½” |
| 50A | 2 ~ 20 | 30 ~ 300 | 400 | 100 | 240 | 2” |
| 65A | 3 ~ 30 | 40 ~ 400 | 450 | 150 | 300 | 2½” |
| 80A | 5 ~ 50 | 50 ~ 500 | 500 | 150 | 360 | 3” |
| 100A | 7 ~ 70 | 60 ~ 600 | 550 | 200 | 400 | 4” |
| 125A | 10 ~ 100 | 80 ~ 800 | 600 | 200 | 480 | 5” |
| 150A | 15 ~ 150 | 100 ~ 1000 | 650 | 200 | 540 | 6” |

## Ordering Information

| HB-TYPE | Code | Model |
|---|---|---|
| | HBS | stainless steel wetted parts |

| Code | Size |
|---|---|
| | (1) 15A (2) 20A (3) 25A (4) 32A (5) 40A (6) 50A |
| | (7) 65A (8) 80A (9) 100A (10) 125A (11) 150A |

| Code | Connection Rating |
|---|---|
| | (1) JIS 10K (2) JIS 20K (3) ANSI 150# |
| | (4) ANSI 300# (5) DIN PN10 (6) DIN PN40 |

| Code | Body (wetted parts) Material |
|---|---|
| | (1) SS304 (2) SS316 |
| | (3) Option |

| Code | Indicating Tube Material |
|---|---|
| | (1) Borosilicate glass (2) PC |

| Code | Float Material |
|---|---|
| | (1) SS304 (2) SS316 |

| Code | Seal Material |
|---|---|
| | (1) NBR (2) Viton (3) Teflon |

| Code | Protection Supporter Material |
|---|---|
| | (1) SS304 (2) SS316 |

| Code | Fluid |
|---|---|
| L | for liquid |
| G | for gas |

| Code | Flow Range |
|---|---|
| | Please directly fill out the flow range in the order code. |

| HB-TYPE | | | | | | + | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|